SONY®

CPD-1304

Operating Instructions : page 2

Mode d'emploi

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Owner's Record

The model and serial numbers are located at the rear. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your dealer regarding this product.

Model No. CPD-1304

Serial No._____



WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Dangerously high voltages are present inside the unit. Do not open the cabinet. Refer servicing to qualified personnel only.

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna

Relocate the equipment with respect to the receiver

Move the equipment away from the receiver

Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

A shielded interface cable SMF-523 must be used with this equipment. This apparatus complies with the Class B limits for radio noise emissions set out in Radio Interference Regulations of CANADA.

The CPD-1304 is a high resolution character display designed for use with microcomputers, or character generators having either analog or digital RGB output.

Features

- Super Fine Pitch Trinitron character display with an anti-glaring dark screen.
- An RGB terminal which allows equipment with analog RGB output to be connected.
- Compatible with the PS/2 microcomputer using the VGA.

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•	Connections
•	I position and Function of Control

Precautions

On safety

- Operate the unit only on 120V AC, 60 Hz.
- Should any liquid or solid object fall into the cabinet, unplug the and have it checked by qualified personnel before operating further. it any unit
- days. Unplug the unit from the wall outlet if it is not to be used for several
- To disconnect the AC power cord, pull it out by the plug. Nev the cord itself. er pull

On installation

- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes. Allow adequate air circulation to prevent internal heat build-up.
- tors or air ducts, or in a place subject dust, mechanical vibration or shock. Do not install the unit in a location near heat sources such as radiaor in a place subject to direct sunlight, excessive

On cleaning

with a mild detergent solution. Never use strong solvents such as thin-ner or benzine, or abrasive cleansers since these will damage the cahinet As a safety precaution, unplug the unit before cleaning it. cloth. Stubborn stains may be removed with a cloth lightly dampened cabinet. As a safety precaution, unplug the unit before cleaning keep the unit looking brand-new, periodically clean it with a soft

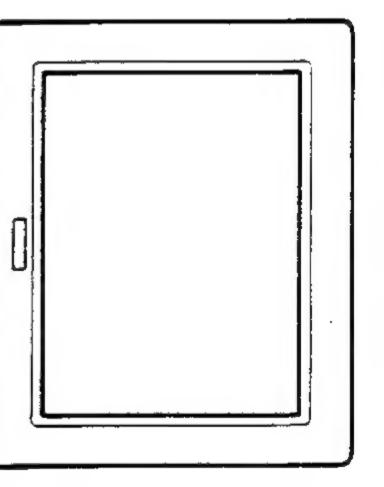
On repacking

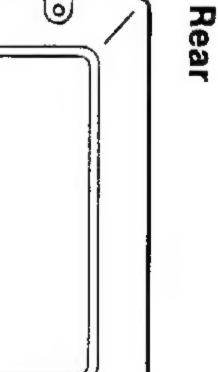
Do not throw away the carton and packing materials. They make ideal container in which to transport the unit. When shipping the unit another location, repack it as illustrated on the carton. unit to an

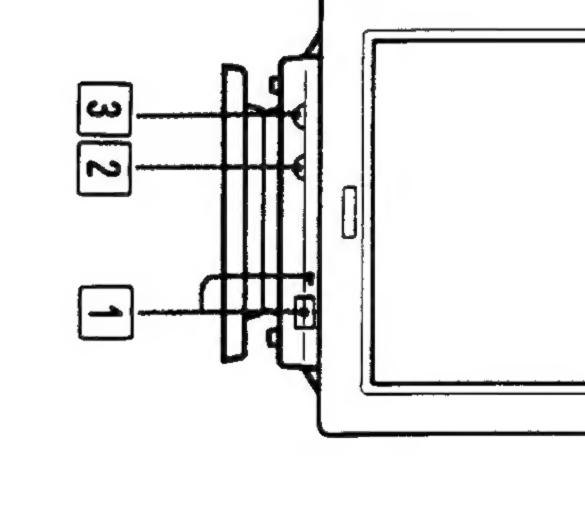
If you have any questions about this unit, contact your authorized Sony dealer.

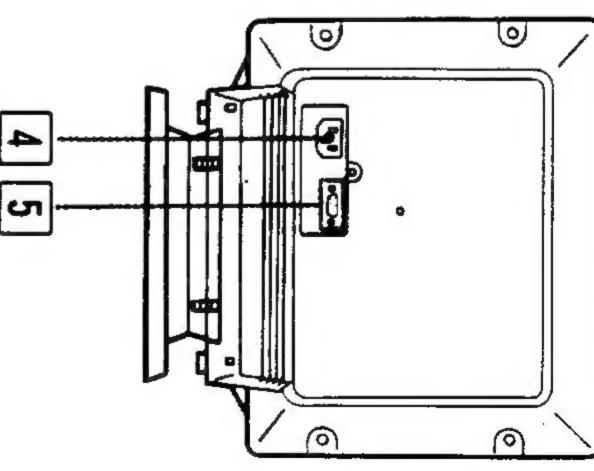
and **Function**

Front









---POWER switch and indicator

will light up. To turn off the unit, press To turn on the power of the unit, press it again. this switch. The indicator

2 CONTRAST control (3)

contrast. Turn clockwise to increase contrast, or counterclockwise for less

ω BRIGHTNESS control (意)

darker display. Turn clockwise for a brighter display, or turn counterclockwise for a

4

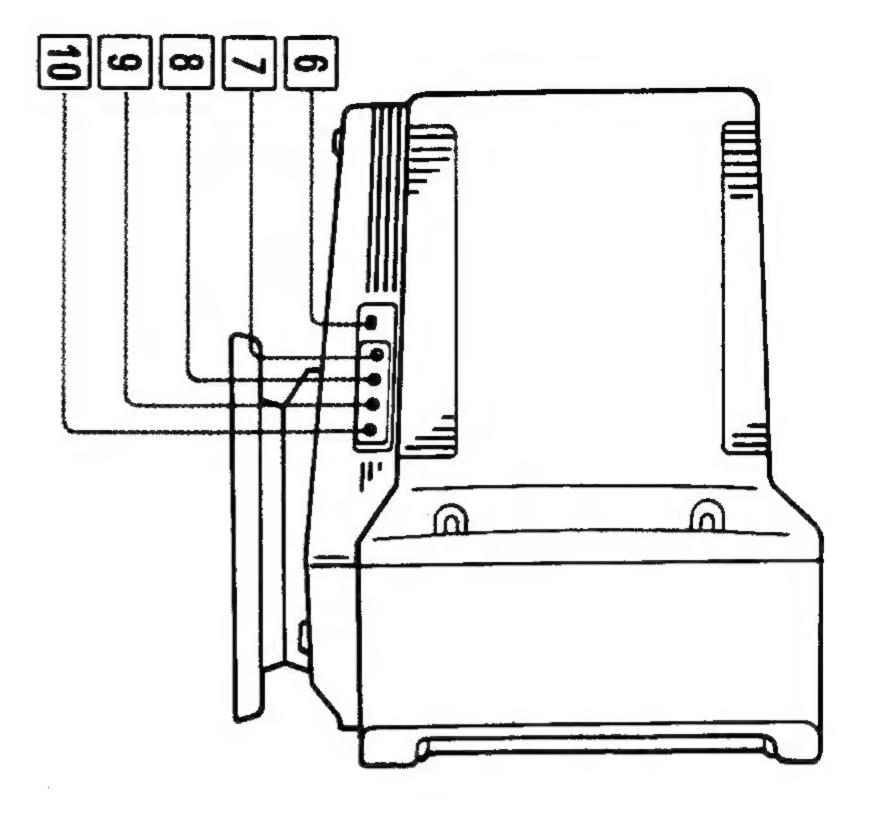
AC IN connector

Connect to the AC outlet with the supplied AC power cord.

රා RGB IN (input) connector (9-pin D-sub)

nected. Allows microcomputer having anal log RGB output ō be con-

Refer to page 7.



6 AUTO SIZE switch

Depending on the microcomputer connected to the display, set this switch to the appropriate position.

LOCK: ically adjusted to the VGA mode, and the H SIZE, H For the IBM PS/2 When this V SIZE and V CENT controls will have no effect. switch s: microcomputer set to LOCK, the timing using the VGA S automat-SHIFT, mode.

DJ: For other microcomputers having analog RGB output. When this switch is set to ADJ, adjust the display with the H SIZE, H SHIFT, V SIZE and V CENT controls.

7 H SIZE (horizontal size) control

Turn this control to adjust the horizontal size of the display.

8 H SHIFT (horizontal shift) control

Turn this control to adjust the center of the display horizontally.

9 V SIZE (vertical size) control

Turn this control to adjust the vertical size of the display.

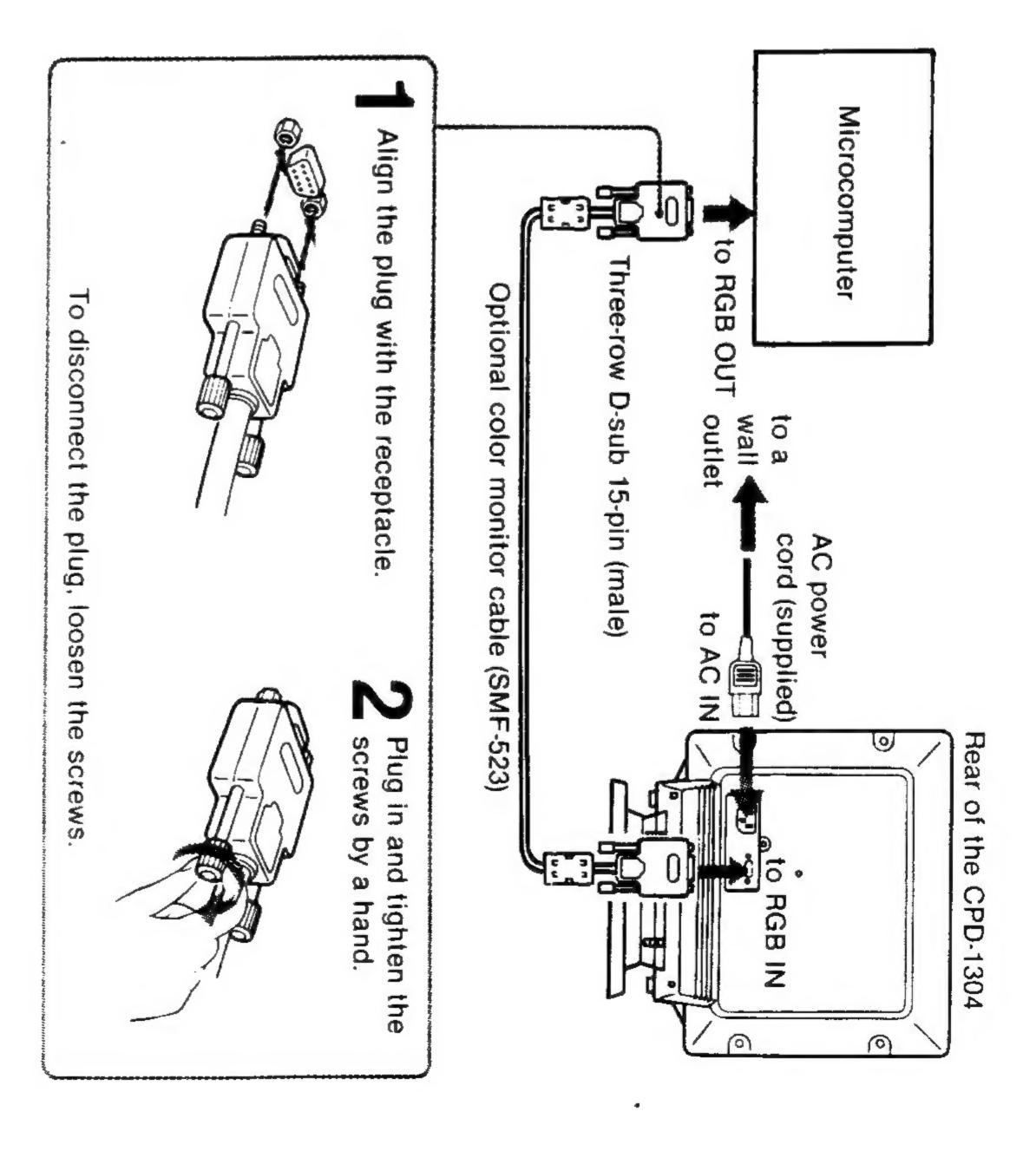
V CENT (vertical center) control

Turn this control to adjust the center of the display vertically.

connections

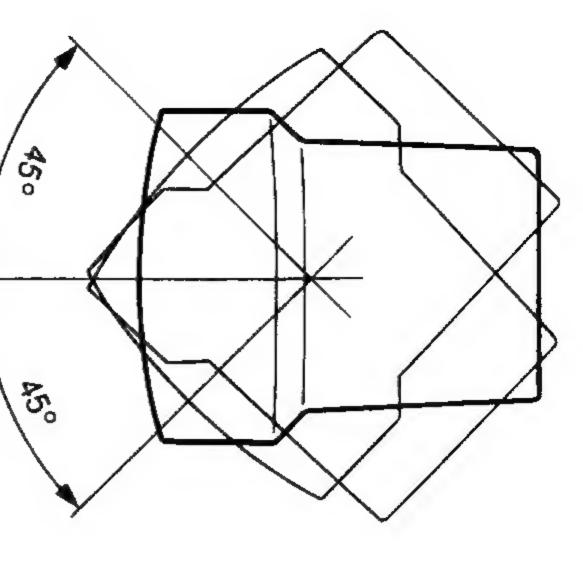
Connect the power cord and the optional SMF-523 color monitor cable with a 9-pin D-sub connector.

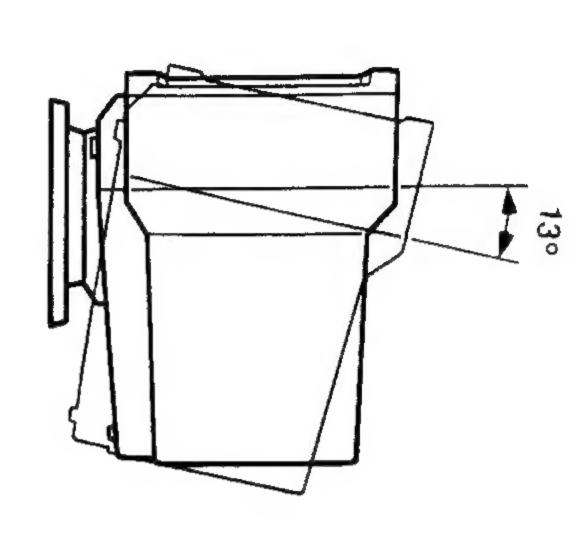
Be sure to turn the power of the unit off before making the connection.



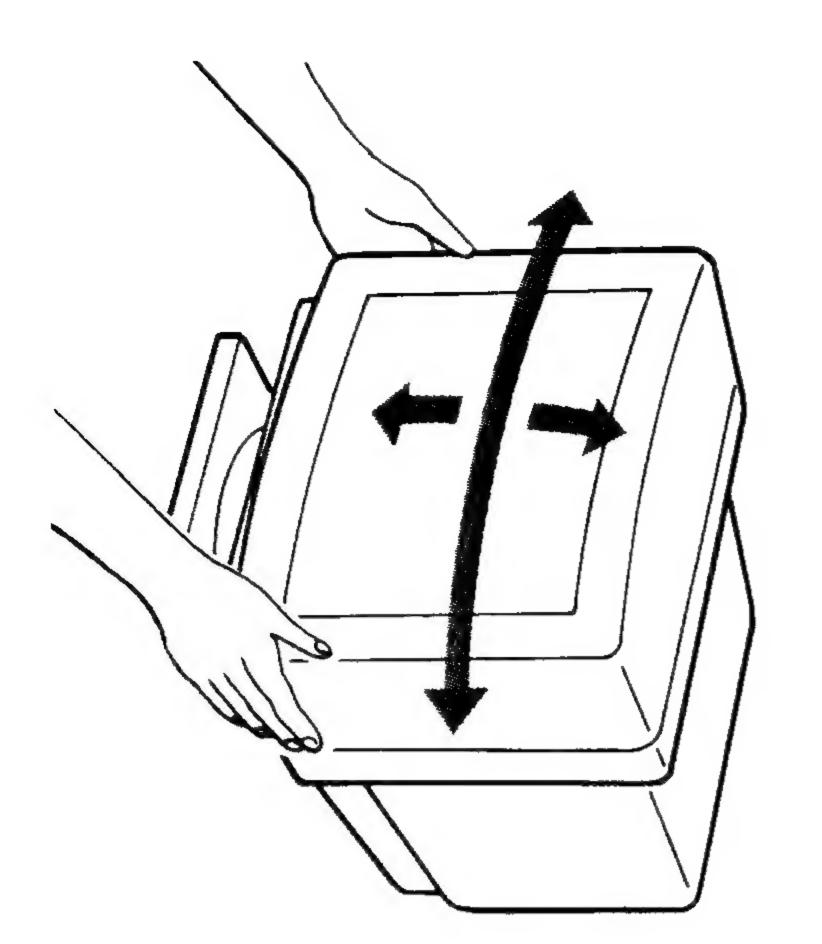
se of the Tilt-Swivel

With the tilt-swivel, this desired angle within 90° unit can be adjusted to be viewed horizontally and 13° vertically. at your





as To turn the unit horizontally, hold it at its bottom with your both hands illustrated below.



pecifications

Picture tube

Super Fine Pitch 13-inch picture tube measured diagonally Trinitron color tube

90 degree deflection

Anti-glaring dark Useful screen 274mm × 207mm screen

Phosphor P22

Phosphor pitch 0.26mm

 1024×768

Viewable Pixels

Scanning frequency Vertical sync signal frequency:

50 - 87 Hz

28 - 50 kHz

Horizontal sync signal frequency:

Input connector RGB input (D-sub 9-pin) (Analog)

Video input signal Analog RGB positive

0.714 Vp-p/75Ω terminated

Sync input

Power requirements 120V AC, 50/60 Hz Sync on green is acceptable.

Composite sync

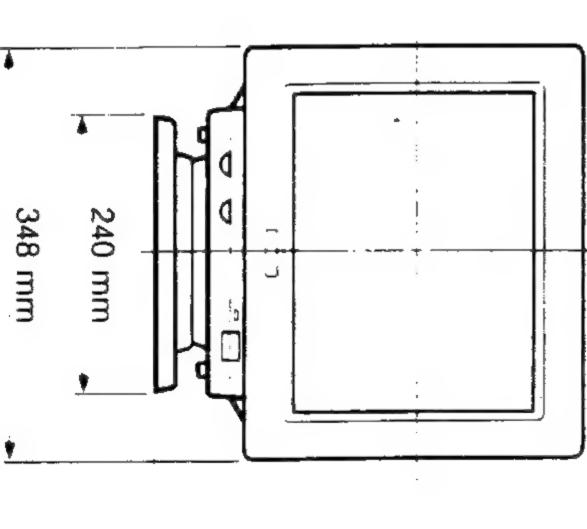
is acceptable at Pin # 8.

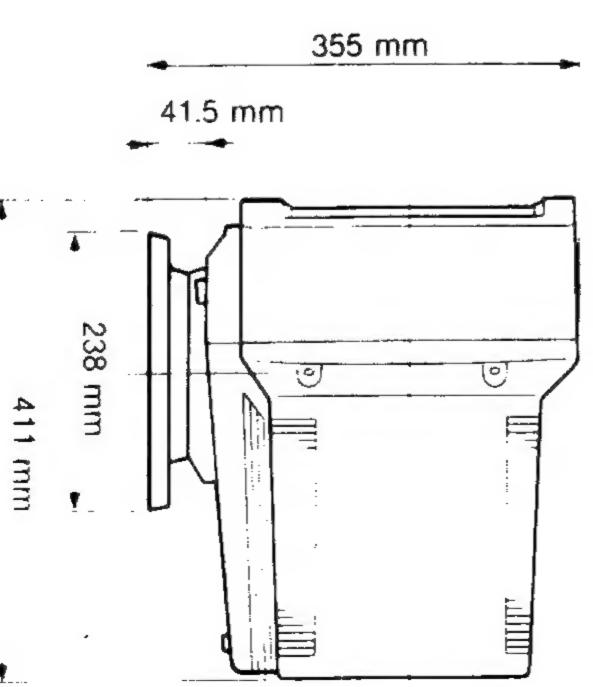
TTL level. Polarity free.

 $355(H) \times 348(W) \times (14 \times 13^3/_4 \times 16^1/_8 i)$ 411(D) mm

Dimensions

inches)





Weight

13.1 kg (29.1 lb)

Including the tilt-swivel

Supplied accessory AC power cord (1)

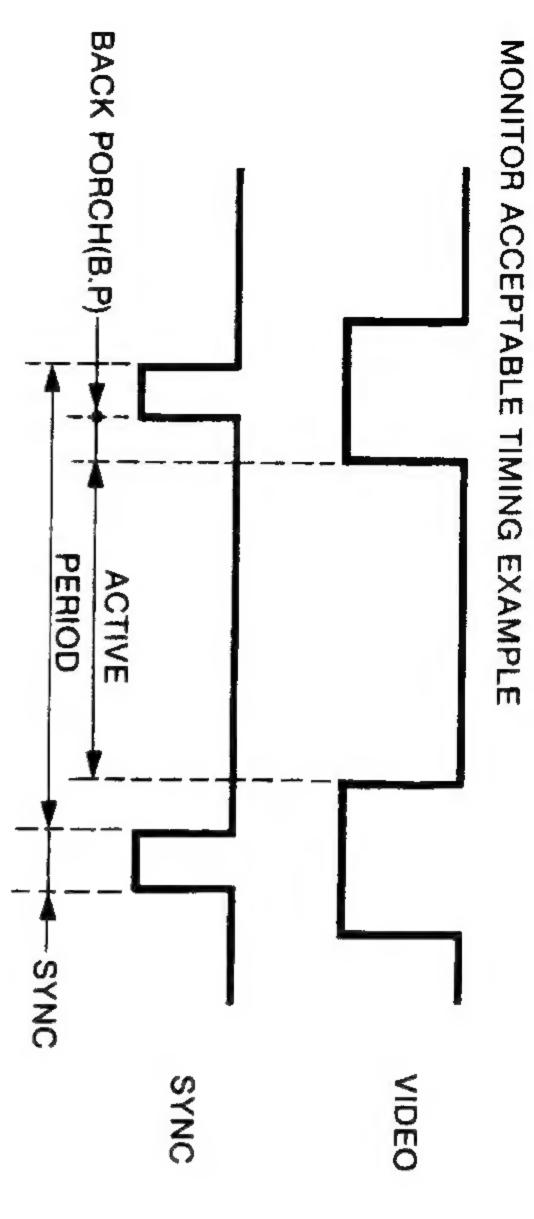
Optional accessory Monitor cable (9-pin 15-pin)

SMF-523

Design and specification subject to change without notice.

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The following timing chart shows approximate values.



25.175	25.175	25.175	(MHz)	CLOCK FREQ.
NEGA	NEGA	POSI	<	
NEGA	POSI	NEGA	I	SYNC POLARITY
480	350	400	ACTIVE	
32	59	34	B.P	
2	2	2	SYNC	
525	449	449	PERIOD (H)	<
		25.42	ACTIVE	
1	1	1.91	B.P	
		3.81	SYNC	
		31.78	PERIOD (uS)	I
59.9	70.1	70.1	V (Hz)	
31.47	31.47	31.47	H (kHz)	FREQ.
အ	2	-		

2 1024

FREQ. H (kHz) 35.52 V (Hz) 35.52 H (γ (Hz) 35.52 PERIOD (μS) 28.15 SYNC 35.52	e (th = 35.52) H (kHz) V (Hz) PERIOD (μS) SYNC	KHz/fv = 87+ 35.52 87.0 28.15 3.92
	SYNC	ω
	B.P	1.25
	ACTIVE	22.81
<	PERIOD (H)	408.5
	SYNC	
	B.P	20/20.5
	ACTIVE	384
SYNC POLARITY H	I	POSI
	V	POSI
CLOCK FREQ.	(MHz)	44.900

[1],[2]: WHEN THE AUTO SIZE SW IS IN THE LOCKED POSITION, PICTURE SIZE IS AUTOMATICALLY ADJUSTED FOR THE ABOVE LISTED VIDEO MODES ([1], [2]).
ALL SIZING CONTROLS ON THE LEFT SIDE OF THE MONITOR ARE THEREFORE INEFFECTIVE.

TO ADJUST SIZING FOR OTHER VIDEO MODES, CHANGE THE SW TO ADJ AND ADJUST THE CONTROLS.

POLARITY FREE WITH THE TIMING [1], [2] IF THE AUTO SIZE SW IS NOT USED.

35 kHz 800 × 600 non-interace (example)

600	ACTIVE	
7	B.P	
14	SYNC	* ,
628	PERIOD (H)	<
22.22	DISPLAY	
2.67	B.P	
3.11	SYNC	
28.44	PERIOD (uS)	I
56.0	V (Hz)	
35.16	H (kHz)	FREQ.
		900 × 900

48 kHz 1024 × 768 non-interace (example)

CLOCK FREQ.				<				I	•	FREQ.	
(MHz)	ACTIVE	B.P	SYNC	PERIOD (H)	DISPLAY	B.P	SYNC	PERIOD (uS)	V (Hz)	H (kHz)	
64.000	768	28	4	803	16.00	2.75	1.00	20.75	60.0	48.19	

3, 4: SYNC POLARITY FREE